EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	35	laser with weld$3 with intermediate adj member	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:03
L2	0	laser with textur$5 with intermediate adj member with (join$3 connect$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:04
L3	0	textur$5 near2 surface near5 intermediate adj member with (join$3 connect$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:04
L4	0	textur$5 near2 surface near5 intermediate adj member same member with (join$3 connect$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:05
L5	7	textur$5 near2 surface near5 spacer same spacer with (join$3 connect$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:05
L6	9	textur$5 near2 surface near5 intermediate same intermediate with (join$3 connect$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:06
L7	31	rough$5 adj surface near5 (intermediate spacer spacing) same (intermediate spacer spacing) with (join$3 connect$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:08
L10	6	"2375728"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:16

L11	9	"2029308"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:17
L12	12	"2252068"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:17
L13	0	rough$5 near2 surface near5 (intermediate spacer spacing) with both adj side same (intermediate spacer spacing) with (join$3 connect$4) with adhesiv $5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:33
L14	0	rough$5 near2 surface near5 (intermediate spacer spacing) with both adj side and (intermediate spacer spacing) with (join$3 connect$4) with adhesiv $5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:33
L15	0	rough$5 near2 surface with (intermediate spacer spacing) with both adj side and (intermediate spacer spacing) with (join$3 connect$4) with adhesiv $5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:34
L16	0	(rough$5 textur$5 abrad $3 scratch$4) near2 surface with (intermediate spacer spacing) with both adj side and (intermediate spacer spacing) with (join$3 connect$4) with adhesiv$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:34
L17	0	(rough$5 textur$5 abrad $3 scratch$4) near2 face with (intermediate spacer spacing) with both adj side and (intermediate spacer spacing) with (join$3 connect$4) with adhesiv $5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:35

L18	0	(rough$5 textur$5 abrad $3 scratch$4) near2 (face surface side) with (intermediate spacer spacing) with both adj side and (intermediate spacer spacing) with (join$3 connect$4) with adhesiv$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:35
L19	0	(sand$3 rough$5 textur $5 abrad$3 scratch$4) near2 (face surface side) with (intermediate spacer spacing) with both adj side and (intermediate spacer spacing) with (join$3 connect$4) with adhesiv $5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:36
L20	41	(sand$3 rough$5 textur $5 abrad$3 scratch$4) near2 (face surface side) same (intermediate spacer spacing) with (join$3 connect$4) with adhesiv $5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 10:37
L23	1242	"156"/$.ccls. and ((rough$5 textur$5 abrad$4 scratch$4) near2 (surface face)). clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 12:13
L24	551	"156"/$.ccls. and ((rough$5 textur$5 abrad$4 scratch$4) adj (surface face)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 12:13
L25	25	"156"/$.ccls. and ((rough$5 textur$5 abrad$4 scratch$4) adj (surface face) and laser).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/23 12:14
S1	2	(("4861407") or ("6176959")).PN.	USPAT; USOCR	OR	OFF	2009/03/22 08:58
S2	7	("3959091" | "4479218" | "4673409" | "4861407" | "4931125" | "5338915" | "5473138").PN. OR ("6176959").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 08:59

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S4	83	S3 and laser	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:07
S5	73	S3 and (laser electron energy radiation light) adj2 beam	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:07
S6	75	S3 and (laser electron energy radiation light) near2 beam	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:08
S7	56	S4 and laser with surface	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:09
S8	22	S4 and laser with surface with (structur$5 project$4 hole aperture feature)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:10
S9	16	S4 and laser with surface with (structur$5 projection projecting hole aperture feature)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:11

S10	16	S4 and laser with surface with (structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:11
S11	18	S4 and laser with surface with (modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:13
S12	25	S4 and laser with (surface topo$11) with ($7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:24
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S14	101	S13 and laser with (surface topo$11) with ($7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:29

S15	37	S14 and (repeat$4 plural $4 multiple) with laser with (surface topo$11 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:30
S16	15	S15 and melt$3 with (laser surface topo$11 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:31
S17	7	S14 and repeat$4 with laser with (surface topo $11 $7textur$6 modify $3 modificat$4 structur $5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:32
S18	1	("5291240").PN.	USPAT; USOCR	OR	OFF	2009/03/22 09:34
S19	30	S4 and laser with (surface topo$11) with (pattern$4 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:36
S20	733	("0444597"	"0852873"	"1730520"	"1938444"	"20010039454"	"20010044043"	"20010053937"	"20030006534"	"20030065400"	"20030102099"	"20030124043"	"20030125739"	"20030126948"	"20030138368"	"20030186828"	"20040002759"	"20040067355"	"20050016969"	"20050063889"	"20050119759"	"20080021586"	"20080050524"		US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:37

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S21	90	S20 and (repeat$4 plural $4 multiple) with laser with (surface topo$11 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:39
S22	39	S20 and (repeat$4 plural $4 multiple) with laser with (topo$11 $7textur $6 modify$3 modificat $4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:40
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S27	39	S26 and (repeat$4 plural $4 multiple) with laser with (topo$11 $7textur $6 modify$3 modificat $4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:44
S28	30	S27 and laser with (surface topo$11) with (pattern$4 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:45
S29	8	S27 and repeat$4 with laser with (topo$11 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 09:46
S30	9	("20060233999" | "4768897" | "4861407" | "4931125" | "4968383" | "5601737" | "6096445" | "6176959" | "6559926"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 10:31
S31	152	("1401386" | "20010011700" | "3101225" | "3193424" | "3563038" | "3959091" | "4004050" | "4166709" | "4194855" | "4278867" | "4341823" | "4348263" | "4476150" | "4479218" | "4480943" | "4483641" | "4525250" | "4561516" | "4565115" | "4572700" |	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 10:32

		"4580925"	"4599243" 	"4615763"	 "4619339"	"4622138" 	"4632204"	 "4672885"	"4673409" 	"4746390"	 "4832798"	"4861407" 	"4898650"	 "4931125"	"5023407" 	"5062021"	 "5332879"	"5338915" 	"5368911"	 "5413835"	"5424508" 	"5427867"	 "5473136"	"5473138" 	"5474830"	 "5491319"	"5506017" 	"5550696"	 "5586040"	"5637393" 	"5650237"	 "5662984"	"5705287" 	"5843561"	 "5981962"	"6097473" 	"6194711"	 "6351304"	"6366340"). PN. OR ("2006/0233999" | "4768897" | "4861407" | "4931125" | "4968383" | "5601737" | "6096445" | "6176959" | "6559926"). URPN.				
S32	5	S31 and repeat$4 with laser with (topo$11 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 10:32
S33	2	S31 and (repeat$4 multipl$5) with laser with (deposit$4 build$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 10:35
S34	6	S29 and (join$4 bond$3 attach$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 10:40
S35	4	S29 and (join$4 bond$4 attach$5) with (topo$11 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 10:41

S36	11	S27 and (join$4 bond$4 attach$5) with (topo$11 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound) not S35	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 10:43
S37	1	S26 and laser with (multiple plural$4 translat$4 different) with cool$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 10:59
S38	114	laser near2 (multiple plural$4 translat$4 different) with cool$3 near2 laser	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 11:00
S39	3	laser near2 (multiple plural$4 translat$4 different) near2 locat$4 with cool$3 near2 laser	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 11:01
S40	1	machin$3 near2 (location first) near2 cool$3 with (second multiple plural$4 translat $4 different) near2 locat $4 near2 machin$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 11:03
S41	0	machin$3 near2 second near2 location with cool $3 with first near2 locat $4 near2 machin$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 11:05
S42	2	machin$3 near2 second near2 (locat$4 spot position) with cool$3 with first near2 (locat$4 spot position) near2 machin$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 11:05
S43	0	machin$3 near2 second near2 (locat$4 spot position) same cool$3 with first near2 (locat$4 spot position) near2 machin$3 not S42	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 11:06

S44	46	(machin$3 laser drill$4 cut$4 weld$4 braz$4 solder$4) with (multiple plural$4 second different) adj2 (location postion spot feature) with (first earlier previous$4) near2 (location position spot feature) with (cool$4 temperature)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 11:11
S45	2	(("6455807") or ("6919162")).PN.	USPAT; USOCR	OR	OFF	2009/03/22 11:28
S46	0	S45 and alloy$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 11:28
S47	39	S26 and laser with alloy $3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 11:29
S48	5	S24 and laser with (surface topo$11 pattern $4 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound) with alloy$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 11:59
S49	109	laser with (surface topo $11) with (pattern$4 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound) near5 alloy $4	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 12:02
S50	32	laser with (surface topo $11) with (pattern$4 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound) with (form $3 produc$4 result$3 manufactur$3) near2 alloy$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 12:04

S51	2	laser same (surface topo $11) with (pattern$4 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound) with (form $3 produc$4 result$3 manufactur$3) near2 alloy$4 with (gas$4 atmosphere)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 12:09
S52	0	laser same (surface topo $11) with (pattern$4 $7textur$6 modify$3 modificat$4 structur$5 projection projecting hole aperture feature hill mound) with (form $3 produc$4 result$3 manufactur$3) near2 alloy$4 near3 (gas$4 atmosphere)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/22 12:09
S53	3	(("6455807") or ("6919162") or ("4850089")).PN.	USPAT; USOCR	OR	OFF	2009/03/22 12:12
S54	2	S53 and (atmosphere inert gas)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:12
S55	282	S23 and laser with (rough$5 project$4 loop lock$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:17
S56	20	S23 and laser with (produc$4 effect$3 manufactur$3 making make) near2 (rough$5 project$4 loop lock$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:17
S57	0	S23 and (produc$4 effect$3 manufactur$3 making make) near5 (rough$5 project$4) with (loop$3 lock$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:25
S58	4	S23 and (produc$4 effect$3 manufactur$3 making make) near5 (rough$5 project$4) with (loop$3 hoop$3 ring$4 $6lock$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:26

S59	5	S23 and (produc$4 effect$3 manufactur$3 making make form$3) adj2 (rough$5 project $4) with (free loop$3 hoop$3 ring$4 $6lock $3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:29
S60	158	laser same (produc$4 effect$3 manufactur$3 making make form$3) adj2 (rough$5 project $4) with (free loop$3 hoop$3 ring$4 $6lock $3) not S58 not S59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:31
S61	153	laser same (rough$5 project$4) with (produc $4 effect$3 manufactur $3 making make form $3) adj3 (loop$3 hoop $3 ring$4 arc arcuat$4) not S58 not S59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:35
S62	40	laser near5 (rough$5 project$4) with (produc $4 effect$3 manufactur $3 making make form $3) adj3 (loop$3 hoop $3 ring$4 arc arcuat$4) not S58 not S59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:35
S63	3	laser near5 (rough$5 project$4) with (produc $4 effect$3 manufactur $3 making make form $3) adj3 (loop$3 hoop $3 arc arcuat$4) not S58 not S59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:38
S64	98	laser near5 (rough$5 project$4) with (produc $4 effect$3 manufactur $3 making make form $3) same (energy power intensit$3) near2 reduc$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:44
S65	7	laser near5 (rough$5 project$4) near3 (produc $4 effect$3 manufactur $3 making make form $3) with (energy power intensit$3) near2 reduc $4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:45

S66	6	laser with (rough$5 project$4) near3 (produc $4 effect$3 manufactur $3 making make form $3) with (energy power intensit$3) near2 reduc $4 not S65	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:46
S67	2	laser near3 (machining drilling cutting etching) with (energy power intensit$3) near2 reduc $4 with (chang$5 alter $5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:48
S68	5	laser with (machining drilling cutting etching) and (energy power intensit$3) near2 reduc $4 near4 smooth$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/22 12:49

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